Transportable Storage with an Autonomous Dispensing System

Abstract of Disclosure

The system of the present invention has a flexible bladder designed to provide for the transfer of liquids from a storage/transport unit to vehicles, as well as uses in other environments, without the necessity of pumps and/or motors. The system includes a flexible, collapsible bladder that is self contained and uses compressed gas or air, or a pressurized liquid, to pressurize the unit in lieu of gravity, pumps, motors or a vehicle. The system essentially consists of a cylindrical flexible bladder constructed with a flexible internal diaphragm which extends from a portion of the interior of the bladder, and separates the ends of the bladder such that when the air, gas or pressurized liquid is injected into one end of the bladder, the same does not contaminate or otherwise mix with the liquid or semi-liquid stored in the bladder. Injection of compressed air or gas, or pressurized liquid, into the bladder creates sufficient pressure at one of the bladder to permit the controlled expulsion of the stored liquid from the other end of the bladder. The system further comprises a pressure port and a fluid port to respectively facilitate the injection and expulsion of air, gas or pressurized liquid into the first end of the bladder, and the injection and expulsion of fluid into and from the second end of the bladder. Finally, the system comprises removable means to inject such air, gas or fluid into the first end of the bladder and removable means to inject and expel the fluid stored in the second end of the bladder.